

Day 3 - API Integration Report -

Furniro

API Integration Process

Step 1: API Endpoint Setup

- API Endpoint:

*`https://677cca8c4496848554c7aa31.mockapi.io/products`

- Data Structure: The API provides product data, including fields like 'productName', 'category', 'price', 'inventory', 'colors', ^s 'status', — 'description', and 'image'.

- Library Used: Axios was used to fetch data from the API.

Step 2: Fetch Data from API

- The API call retrieves an array of product objects from the endpoint, ensuring proper data serialization.

Adjustments Made to Schemas

Product Schema Modifications

I. ****Field Updates:****

- •colors': Added as an optional array of strings to accommodate multiple color options.
- 'image^s: Configured as a Sanity image field with hotspot enabled for better image cropping and scaling.

- category: added category for filter functionality

```
export const productSchema = {
  name: 'product',
  title: 'Product',
  type: 'document',
  fields: [
    {
      name: 'productName',
      title: 'Product Name',
      type: 'string',
    },
    {
      name: 'category',
      title: 'Category',
      type: 'string',
    },
    {
      name: 'price',
      title: 'Price',
      type: 'number',
    },
    {
      name: 'inventory',
      title: 'Inventory',
      type: 'number',
    },
    {
      name: 'colors',
      title: 'Colors',
      type: 'array',
      of: [{ type: 'string' }],
    },
    {
      name: 'status',
      title: 'Status',
      type: 'string',
    },
    {
      name: 'image',
      title: 'Image',
      type: 'image',
      options: {
        hotspot: true,
      },
    },
    {
      name: 'description',
      title: 'Description',
      type: 'text',
    },
  ],
}
```

1

1.

- Installed required dependencies: '@sanity/client', 'axios', 'dotenv'. - Created a '.env.local' file to securely store environment variables.

2. ****Data Fetching:****

- Retrieved product data from the API endpoint using Axios.
- Parsed and logged the data to confirm its structure and integrity.

Migration Steps and Tools Used

Migration Steps

Environment Setup:

- Installed required dependencies: '@sanity/cli', 'axios', 'dotenv'.
- Created a '.env.local' file to securely store environment variables.

2. **Data Fetching:**

- Retrieved product data from the API endpoint using Axios.
- Parsed and logged the data to confirm its structure and integrity.

3. **Image Upload: **

- Downloaded images from the API's 'image' field using Axios.
 - Uploaded images to Sanity's Asset Manager using the Sanity client.
- Code to upload images:

```
const response = await axios.get(imageUrl, { responseType: 'arraybuffer' })
const buffer = Buffer.from(response.data);
const asset = await client.assets.upload('image', buffer, { filename: imageUrl.split('/').pop() })
```

- Code snippet:

```
const sanityProduct = {
  _type: 'product',
  productName: product.productName,
  category: product.category,
  price: product.price,
  inventory: product.inventory,
  colors: product.colors || [],
  status: product.status,
  description: product.description,
  image: imageRef ? {
    _type: 'image',
    asset: {
      _type: 'reference',
      _ref: imageRef,
    },
  } : undefined,
};
await client.create(sanityProduct);
```

Tools Used

- **Sanity Client:** For interacting with the Sanity CMS.

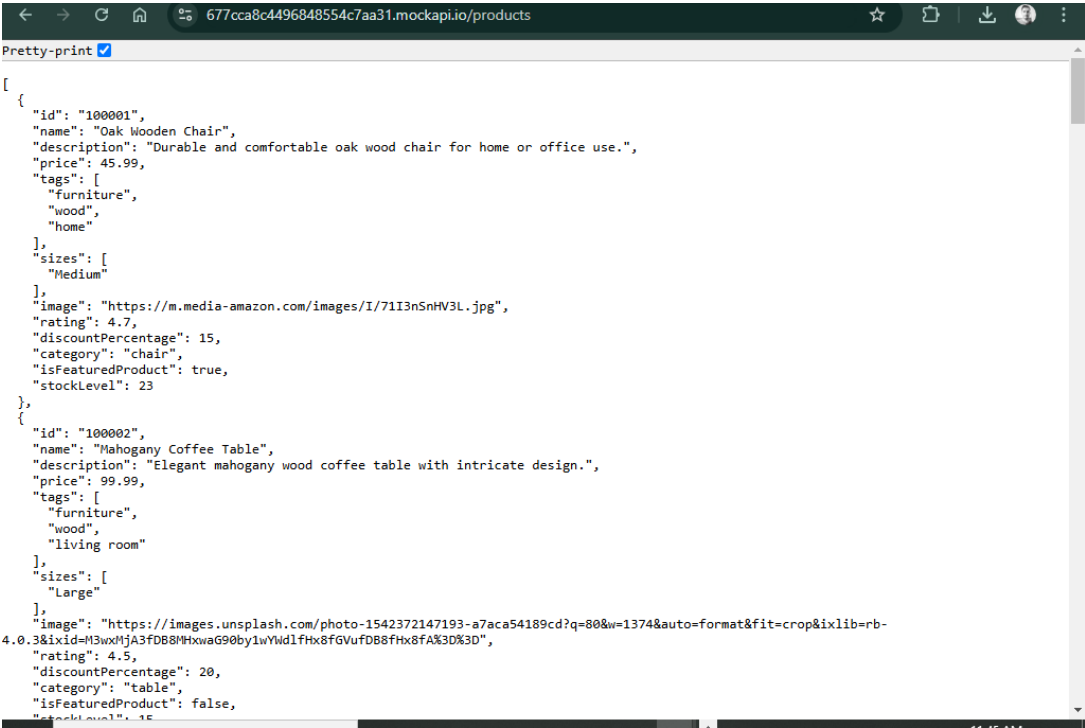
4. **Document Creation:**

- Created Sanity documents for each product by combining API data and uploaded image references.

- ****Axios:**** For making HTTP requests to fetch API data and images.
- ****Dotenv:**** To load environment variables from `$.env.local` ^S.

Screenshots

1. API Call Output



```
[
  {
    "id": "100001",
    "name": "Oak Wooden Chair",
    "description": "Durable and comfortable oak wood chair for home or office use.",
    "price": 45.99,
    "tags": [
      "furniture",
      "wood",
      "home"
    ],
    "sizes": [
      "Medium"
    ],
    "image": "https://m.media-amazon.com/images/I/71I3nSnHV3L.jpg",
    "rating": 4.7,
    "discountPercentage": 15,
    "category": "chair",
    "isFeaturedProduct": true,
    "stockLevel": 23
  },
  {
    "id": "100002",
    "name": "Mahogany Coffee Table",
    "description": "Elegant mahogany wood coffee table with intricate design.",
    "price": 99.99,
    "tags": [
      "furniture",
      "wood",
      "living room"
    ],
    "sizes": [
      "Large"
    ],
    "image": "https://images.unsplash.com/photo-1542372147193-a7aca54189cd?q=80&w=1374&auto=format&fit=crop&ixlib=rb-4.0.3&ixid=M3oxMjA3fD88MHxwaG90by1uYWd1fHx8fGVufDB8fHx8fA%3D%3D",
    "rating": 4.5,
    "discountPercentage": 20,
    "category": "table",
    "isFeaturedProduct": false,
    "stockLevel": 15
  }
]
```

2.

3. Frontend Display



Oak Wooden Chair

\$45.99



Mahogany Coffee Table

\$99.99



Pine Wooden Shelf

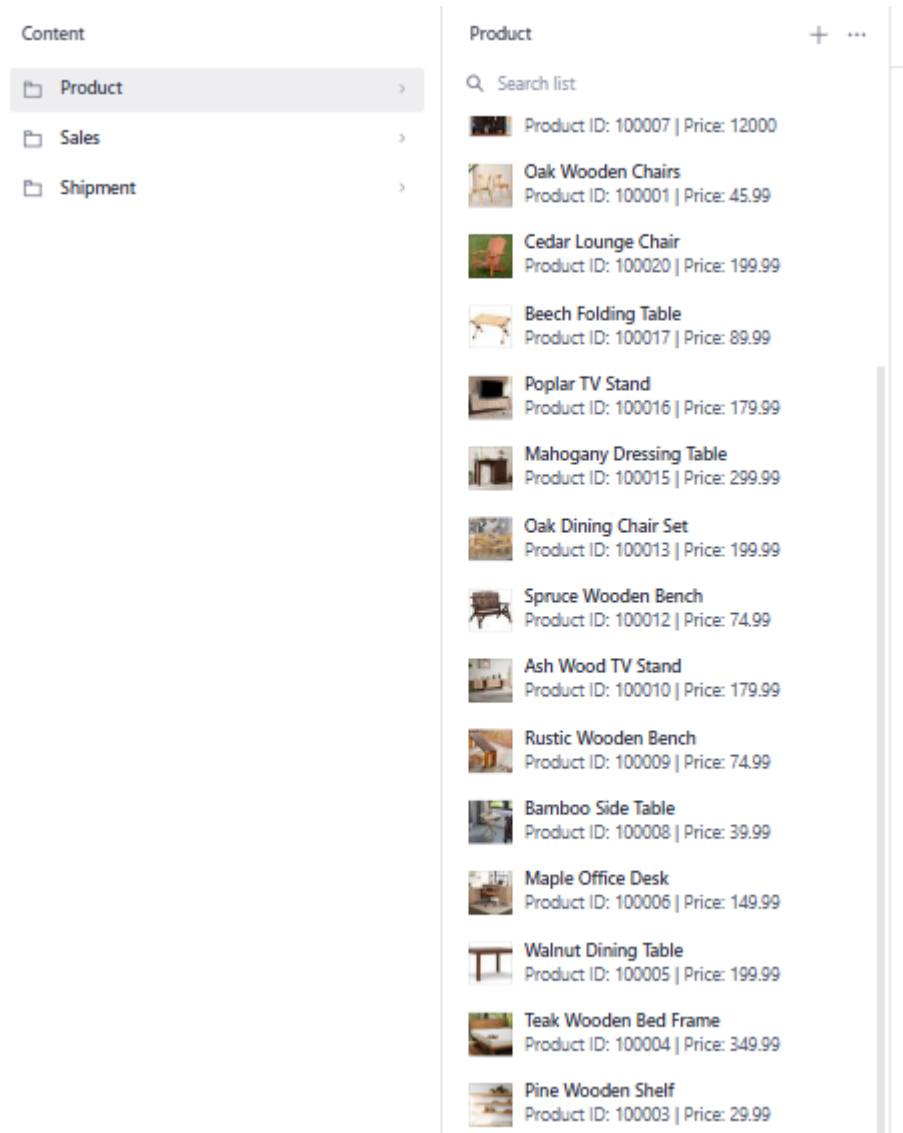
\$29.99



Teak Wooden Bed Frame

\$349.99

3. Populated Sanity CMS Fields



6

Code Snippets

API Integration

```
const response = await  
axios.get('https://677cca8c4496848554c7aa31.mockapi.io/products');  
const products = response.data;
```

Migration Script

```
async function uploadImageToSanity(imageUrl) {
  const response = await axios.get(imageUrl, { responseType: 'arraybuffer' });
  const buffer = Buffer.from(response.data);
  const asset = await client.assets.upload('image', buffer, {
    filename: imageUrl.split('/').pop()
  });
  return asset._id;
}

async function importData() {
  const response = await axios.get('https://template-03-api.vercel.app/api/products');
  const products = response.data.data;

  for (const product of products) {
    let imageRef = null;
    if (product.image) {
      imageRef = await uploadImageToSanity(product.image);
    }

    const sanityProduct = {
      _type: 'product',
      productName: product.productName,
      category: product.category,
      price: product.price,
      inventory: product.inventory,
      colors: product.colors || [],
      status: product.status,
      description: product.description,
      image: imageRef ? {
        _type: 'image',
        asset: {
          _type: 'reference',
          _ref: imageRef,
        },
      } : undefined,
    };

    await client.create(sanityProduct);
  }
}

importData();
```

Final Check List

Understan	Schema Validation	Data M ation	API Integration in	Submission Pr •ration
✓	✓	✓	✓	✓